

Instaflex PU25

WATERPROOF MASTIC

Description

A high performance polyurethane single pack, multi purpose sealant. It is a one part, moisture curing, non-sag elastomeric sealant formulated to provide low skin formation and fast cure.

Uses

For bonding and sealing different substrates in the building industry. Primerless adhesion to most common materials such as: glass, anonised aluminium, wood, lacquered metal, concrete and stone

Benefits

- **INSTAFLEX PU25** has a high elasticity
- Excellent recovery
- Tear resistant
- Good weatherability
- Easy disposal of used container
- Watertight joints

Colour

Standard colour is grey.

Packaging

600 ml tube

Installation

Clean all joint surfaces of all contaminants and impurities (dust release agents, oil, rust) which may affect the adhesion of the sealant. Grinding mechanical abrading or cleaning with a solvent may be required. Do not apply the sealant under 5°C. For cold weather application, store the tube at 20°C before using.

Yield

Each 600ml tube will cover 3 linear metres of joint sealing at the required thickness of 10mm

Application

INSTAFLEX PU25 can be applied by a pneumatic or handgun. The surfaces must be dry, clean and free from dust and oil. Application temperature between +5°C and +40°C. After application the sealant can be finished by using a damp pallet knife.



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Shelf Life

9 months in unopened packing at temperatures between +5°C and +25°C.

Typical Properties

Specific gravity	1,17
Tack free time at 23°C 50% RH	5 hours
Rate of cure at 23°C 50% RH	3mm per 24 hours
Recovery	>90%
Shore A hardness	25
Elongation at break (EN28339)	400%
Tensile strength at break (EN28339)	0,4 Mpa
100% Modules (EN28339)	0,25 Mpa
Shrinkage	7% approximately
Heat resistance	- 40 °C to + 90 °C
Staining	none
Weathering resistance	Excellent
Chemical resistance	good resistance to water diluted acids and diluted alkalines
Storage stability	9 months in the original packaging

Check Resistance to chemical products data sheet.

Guide to sealant quantities

Joint size In mm	Litres per metre run	Metre per 600 ml tube
6 x 6	0.036	16.67
10 x 6	0.060	10.00
12 x 6	0.072	8.33
12 x 10	0.120	5.00
20 x 10	0.200	3.00
25 x 12	0.300	2.00
30 x 15	0.450	1.33
40 x 20	0.800	0.75

Note

The present notice deals in general information. It is necessary for the user to check before hand the compatibility to the materials and working techniques. Our products are of constant and superior quality and cannot be blamed for discrepancies due to their use or reaction which are the exclusive responsibility of the user. Our technical services are at the disposition of our customers for any additional information.

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RESISTANCE TO CHEMICAL PRODUCTS

After 1 month of polymerisation at 23°C and 50% of relative humidity the sealant (laid between 2 glass sheets according to NF P85507 standard) was immersed into the different chemical products for 1 month, and then sample was tractioned.

Resistance is considered as 'very good' when adhesion is maintained and when modulus at break does not 'change' compared to control samples that were not immersed. Resistance is said to be 'good' when adhesion is maintained and when modulus at break does not go under 50% of modulus of control samples.

Chemical Products	Resistance	Remarks
Acids		
- Acetic acid at 10%	Good	
- Acetic acid at 25%	Bad	Inflation of sealant
- Hydrochloric acid at 10%	Good	
- Hydrochloric acid at 25%	Bad	Inflation of sealant
- Sulphuric acid at 10%	Good	
- Sulphuric acid at 25%	Good	
- Nitric acid at 10%	Bad	Decomposition of sealant
Bases		
- Soda at 10%	Good	
- Soda at 25%	Bad	Loss of adhesion
- Potash at 10%	Good	
- Potash at 25%	Bad	Loss of adhesion
Oils and solvents		
- Engine oil (petrol)	Very good	
- Engine oil (diesel)	Very good	
- Methanol	Bad	Inflation of sealant
- Ethanol	Bad	Inflation of sealant
- Glycerol	Very good	
- Acetone	Bad	Inflation of sealant
- Methylcelcetone	Bad	Inflation of sealant
- Ethylacetale	Bad	Inflation of sealant
- Toluene	Bad	Inflation of sealant
- Xylene	Bad	Inflation of sealant
- Chlorinated solvents	Bad	Inflation of sealant
Miscellaneous products		
- Water	Very good	
- Sea water	Very good	
- Saturated saline solution	Good	